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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,482	09/02/2004	Mats Sagfors	P15233-US1	2818
27045	7590	11/01/2007		
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			EXAMINER BRANDT, CHRISTOPHER M	
			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/506,482

Applicant(s)

SAGFORS, MATS

Examiner

Christopher M. Brandt

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 14 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 44-67 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 44-67 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 September 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____   | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

This Action is in response to applicant's amendment filed on August 14, 2007. **Claims 44-67** are still pending in the present application. **This Action is made FINAL.**

### ***Response to Arguments***

Applicant's arguments with respect to claims 44-67 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 44-49, 53-67** are rejected under 35 USC 103(a) as being unpatentable over **Ameigeiras et al. (US PG PUB 2004/0052234 A1, hereinafter Ameigeiras)** in view of **Rautiola et al. (US Patent 6,853,851 B1, hereinafter Rautiola).**

Consider **claim 44 (and similarly applied to claims 47, 53, 55, and 61)**. Ameigeiras discloses a method of load control between a transport protocol sender and transport protocol receiver in a radio communication system (abstract), the method comprising the step of:

transferring to said transport protocol receive one or more signals carrying data from a radio resource management entity of a radio network control node intermediate to said transport protocol sender and said transport protocol receiver, said transport protocol receiver using said data to dynamically adapt transport protocol load (figure 1, paragraph 15, read as a TCP sender that sends data to a user equipment through a radio network controller).

Ameigeiras discloses the claimed invention but fails to explicitly teach that this data is radio resource data.

However, Rautiola discloses radio resource data (figure, column 12 lines 19-58, read as a radio resource manager is also provided for a user terminal for transmitting radio resource data between the mobile unit and the user terminal).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Rautiola into the invention of Ameigeiras in order to allow a system to transfer information between a mobile station and a further communication device (column 3 line 66 – column 4 line 11).

Consider **claim 45 and as applied to claim 44 (and similarly applied to claims 54 and 62)**. Ameigeiras and Rautiola disclose wherein the radio resource management entity is a radio network controller (Ameigeiras; figure 1, paragraph 15).

Consider **claim 46 and as applied to claim 45**. Ameigeiras and Rautiola disclose wherein the radio network controller controls radio resources of user equipment including said

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transport protocol receiver (Ameigeiras; figure 1, paragraph 15, read as a radio network controller RNC).

**Consider claim 48 and as applied to claim 47 (and similarly applied to claim 56).**

Ameigeiras and Rautiola disclose the step of determining a transport protocol parameter on the basis of said radio resource data (Ameigeiras; see sliding window; paragraph 8).

**Consider claim 49 and as applied to claim 48 (and similarly applied to claim 57).**

Ameigeiras and Rautiola disclose wherein the transport protocol parameter comprises a receiver advertised window or a receiver maximum segment size (Ameigeiras; see sliding window; paragraphs 8, 12).

**Consider claim 58 and as applied to claim 57.** Ameigeiras and Rautiola disclose wherein the sender maximum send window is the upper limit for a transport protocol congestion control send window (Ameigeiras; see sliding window; paragraphs 8, 12).

**Consider claim 59 and as applied to claim 58.** Ameigeiras and Rautiola disclose wherein the radio resource data comprises link state information selected from the group consisting of: radio link data rate; round-trip time; block error rate; delay; and packet loss rate (Ameigeiras; paragraphs 6-8, 17).

**Consider claim 60 and as applied to claim 59.** Ameigeiras and Rautiola disclose wherein said method provides dynamic load control (Ameigeiras; paragraph 17).

**Consider claim 63 and as applied to claim 62.** Ameigeiras and Rautiola disclose wherein radio link data rate is determined on the basis of the transferred radio resource data (Ameigeiras; paragraph 17).

Consider **claim 64 and as applied to claim 63**. Ameigeiras and Rautiola disclose wherein the radio resource data is selected from the group consisting of: requested radio link data rate; and data related to data amount of one or more requested data objects (Ameigeiras; paragraph 17).

Consider **claim 65 and as applied to claim 64**. Ameigeiras and Rautiola disclose wherein the transport protocol sender comprises User Equipment (Ameigeiras; figure 1).

Consider **claim 66 and as applied to claim 65**. Ameigeiras and Rautiola disclose wherein the radio network controller controls radio resources of user equipment including the transport protocol sender (Ameigeiras; figure 1, paragraph 15, read as a radio network controller).

Consider **claim 67 and as applied to claim 66**. Ameigeiras and Rautiola disclose wherein the transport control protocol is the Transport Control Protocol, TCP, used on the Internet (Ameigeiras; paragraph 2).

**Claims 50-52 are rejected under 35 USC 103(a) as being unpatentable over Ameigeiras et al. (US PG PUB 2004/0052234 A1, hereinafter Ameigeiras) in view of Rautiola et al. (US Patent 6,853,851 B1, hereinafter Rautiola) and further in view of Cuny (US PG PUB 2003/0179720 A1).**

Consider **claim 50 and as applied to claim 49**. Ameigeiras and Rautiola disclose the claimed invention but fail to disclose the step of including the transport protocol parameter in a transport protocol acknowledgement to a transport protocol sender.

However, Cuny discloses the step of including the transport protocol parameter in a transport protocol acknowledgement to a transport protocol sender (abstract, paragraph 24).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Cuny into the invention of Ameigeiras in order to specify a suitable amount of data for which the sender can transmit to avoid overflow of the buffer at the receiver (paragraph 24)

Consider **claim 51 and as applied to claim 50**. Ameigeiras, Rautiola, and Cuny disclose wherein the transport protocol parameter is a parameter of congestion control in the transport protocol sender (Ameigeiras; paragraph 8).

Consider **claim 52 and as applied to claim 51**. Ameigeiras, Rautiola, and Cuny disclose wherein the transport protocol receiver comprises a User Equipment (Ameigeiras; figure 1).

#### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37.CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents  
P.O. Box 1450

Alexandria, VA 22313-1450

**Hand-delivered responses** should be brought to

Customer Service Window  
Randolph Building  
401 Dulany Street

Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098. The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Corsaro can be reached on (571) 272-7876. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.



Christopher M. Brandt

C.M.B./cmb

October 25, 2007



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